

Recombinant Human SHC1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SHC1-1005H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SHC1 MS Standard C13 and N15-labeled recombinant protein (NP_003020) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes three main isoforms that differ in activities and subcellular location. While all three are adapter proteins in signal transduction pathways, the longest (p66Shc) may be involved in regulating life span and the effects of reactive oxygen species. The other two isoforms, p52Shc and p46Shc, link activated receptor tyrosine kinases to the Ras pathway by recruitment of the GRB2/SOS complex. p66Shc is not involved in Ras activation. Unlike the other two isoforms, p46Shc is targeted to the mitochondrial matrix. Several transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	51.7 kDa
AA Sequence	MNKLSGGGGRRTRVEGGQLGGEEWTRHGVSFVNKPTRGWLHPNDKVMGPGVSYL VRYMGCVEVLQSMRALDFNTRTQVTREAI SLVCEAVPGAKGATRRRKPCSRPLSSIL GRSNLKFAGMPITLTVSTSSLNLMAADCKQIIANHHMQSISFASGGDPDTAEYVAYV AKDPVNQRACHILECPEGLAQDVISTIGQAFELRFKQYLRNPPKLVTPHDRMAGFDG SAWDEEEEEPPDHQYYNDFPGKEPPLGGVDMRLREGAAPGAARPTAPNAQTPS

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HLGATLPVGQPVGGDPEVRKQMPPPPPCPAGRELFDDPSYVNVQNLDKARQAVG
GAGPPNPAINGSAPRDLFDMKPFEDALRVPPPQSVSMAEQLRGEPWFHGKLSRR
EAEALLQLNGDFLVRESTTTPGQYVLTGLQSGQPKHLLLVDPGCVVVRTKDHRFESV
SHLISYHMDNHLPIISAGSELCLQQPVERKLTRTRPLEQKLISEEDLAANDILDYKDD
DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SHC1 SHC adaptor protein 1 [Homo sapiens (human)]

Official Symbol SHC1

Synonyms SHC1; SHC (Src homology 2 domain containing) transforming protein 1; SHC, SHC (Src homology 2 domain containing) transforming protein 1; SHC-transforming protein 1; p66; SH2 domain protein C1; SHC-transforming protein 3; SHC-transforming protein A; SHC (Src homology 2 domain-containing) transforming protein 1; SHC; SHCA; FLJ26504;

Gene ID 6464

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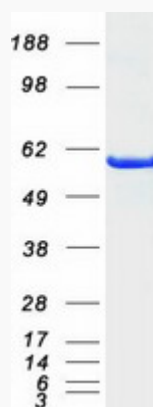
mRNA Refseq NM_003029

Protein Refseq NP_003020

MIM 600560

UniProt ID P29353

SDS-PAGE



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